

Attachment 10B

Site Photographs

Ditches PRI 1 Photographs



The Chlorine, Central, and Western ditches lead from the plant (to the right), connecting with the Main Ditch (center foreground) flowing to the waste-lagoons.



Starting point of the Chlorine Ditch showing a variety of plant discharges. The former Boron Ditch (now buried) is located a short distance east (towards background) of this ditch.



View towards plant downstream of Chlorine Ditch, with more discharges joining stream.



View from head of Central Ditch plant discharge looking north towards Main Ditch



Confluence of Chlorine and Main ditches showing suspected chlorine gas venting from end of submerged pipe.



Close-up of chlorine gas discharge at confluence of Main and Chlorine ditches



Main Ditch (Red River) looking east from confluence with Chlorine Ditch



Oily waste seep-discharging into Main Ditch



Oil sheen in Main Ditch (lower-right) from Western/Central Ditches at confluence with Chlorine Ditch (upper-right).

Photographs of the Landfill PRI 2



Dashed box shows general extent of landfill; newest fill-zones in foreground (east).



Recent refuse disposal into Landfill; waters of the SE-ponded waste lagoon visible in background (September 2011).



Disposed tank in Landfill partially submerged in shallow water-table (September 2011).



View west over 'early-decades portion' of Landfill, showing relative thickness above original ground surface (to left-center).

Photographs of the Sanitary Lagoon PRI 3



View north over the Sanitary Lagoon.



Liquid-discharge inlet area of the Sanitary Lagoon PRI 3.

Photographs of the Gypsum Pile PRI 4



Areal extent of gypsum waste pile PRI 4.



Slurry pipe discharging wastes stream atop gypsum pile.



Slurry discharge channel (excavated and moved periodically to redirect flow) across top of Gypsum Pile.



Gypsum Pile slurry dispersing onto pile area; waters of NW-lagoon visible in distance.



Animal tracks on Gypsum Pile waste.

Photographs of Northwest and Southeast Poned Waste Lagoons PRIs 5 and 6

Active Waste Lagoons



North-eastern shoreline of SE Poned Waste Lagoon; magnesium plant in distance and landfill in escarpment (upper left) between plant and lagoon; main ditch carrying wastes from plant visible in distance between landfill and whitish earthen dike on right. (September 2011)



View south overlooking eastern 'shoreline' of SE Poned Waste Lagoon (May, 2010).



View south over waters and waste-sediments in SE Poned Waste Lagoon (May, 2010).



Eastern shoreline of SE Poned Waste Lagoon; historic GSL shoreline 'beach' area to left. (May 2010)



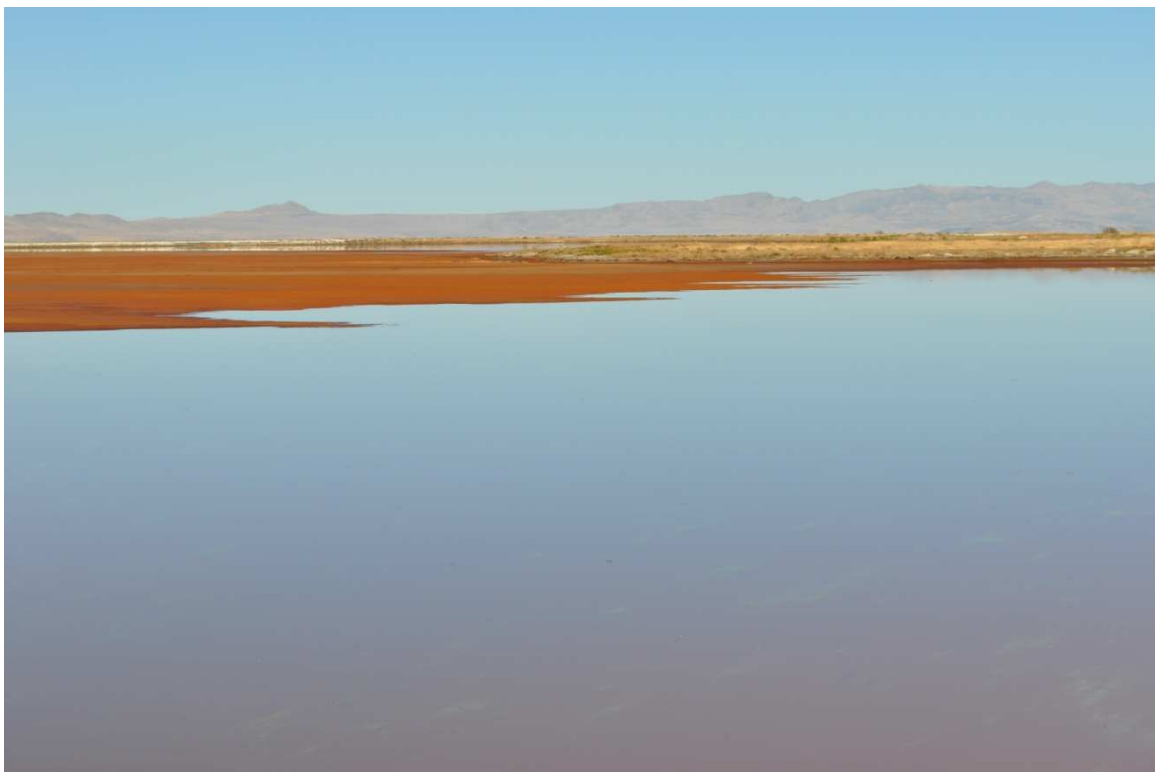
Native ground-cover and diggings of oolitic sand along northern shoreline of NW Poned Waste Lagoon; ATI's concrete building and 'smut' residues visible in distance. (May, 2010)



Flooded native ground (dead native-shrub wood-stalks) of NW Poned Waste Lagoon; Magnesium Plant and ATI plant (concrete building) in distance. (May, 2010)



View of native ground-cover along northern shoreline of NW Poned Waste Lagoon (gypsum pile and landfill in distance across lagoon); numerous gulls in flight. (May, 2010)



Southern area of NW Poned Waste Lagoon; gypsum waste-sediment and waste-streams extending into the lagoon waters. (May, 2010)



Southeastern shoreline of the NW Poned Waste Lagoon. (May, 2010)

Photographs of Northeast Poned Waste Lagoon PRI 7

Abandon Inactive Waste Lagoon



Northeast Poned Waste Lagoon from western edge of former waste pond (May, 2010).



View of NE Poned Waste Lagoon looking to south. Pond wastes and standing water to left (May 2010).



View looking south at north-east corner of NE Poned Waste Lagoon. 'High-waters' of NE-Lagoon to right of 'dike/road'; fresh-waters Skull-Valley Diversion Canal flowing into GSL to left (east) of road (May 2010).



Dry and encrusted bed of NE-Ponded Waste Lagoon (September 2011).



View to SW across waste-sediments of historic NE-Ponded Waste Lagoon (May 2010).



Evidence of livestock grazing along shoreline of NE Poned Waste Lagoon (May 2010).



Small animal burrows along historic GSL shoreline adjacent to NE Poned Waste Lagoon (May 2010).



Large-bird tracks in dried mud on roadway between NE Poned and SE Poned Waste Lagoon.



Dry encrusted waste/sediments in NE Poned Waste Lagoon with dead insect (September 2011).

Photographs of the Smut Pile PRI 9



Weathered (old) portion of the Smut Piles



Less weathered portions of the Smut Pile



Dark-colored un-weathered Smut



Like and dark colored unweathered Smut

Photographs of Barium Sulfate Area PRI 10



Light colored flat area to right at end of road in distance is the Barium Sulfate Area landfill

**Photographs of the ATI Titanium Plant and
US Magnesium Parking Lots PRI 11**



Developed and landscaped areas around ATI plant parking lot



Open ground between USMag plant and ATI plant



Undeveloped ground around SE area of ATI complex

**Photographs of US Magnesium Ancillary
Worker Exposure Area PRI 12**



View of open ground in PRI-12's western area, south of Hill Brother Chemical facilities



View over eastern portion of PRI-12 overlooking open ground east of the magnesium plant's Star-Pond reservoir.

Photographs of Buffer Area North and East PRI 13



Buffer Area North and East showing the northern portion of the buffer area and the shrimp harvester's seasonal camp and active ponded waste lagoons in background.



Buffer Area North and East, the Skull Creek Diversion, and solar evaporation ponds in background.



Buffer Area North and East showing GSL inlet.

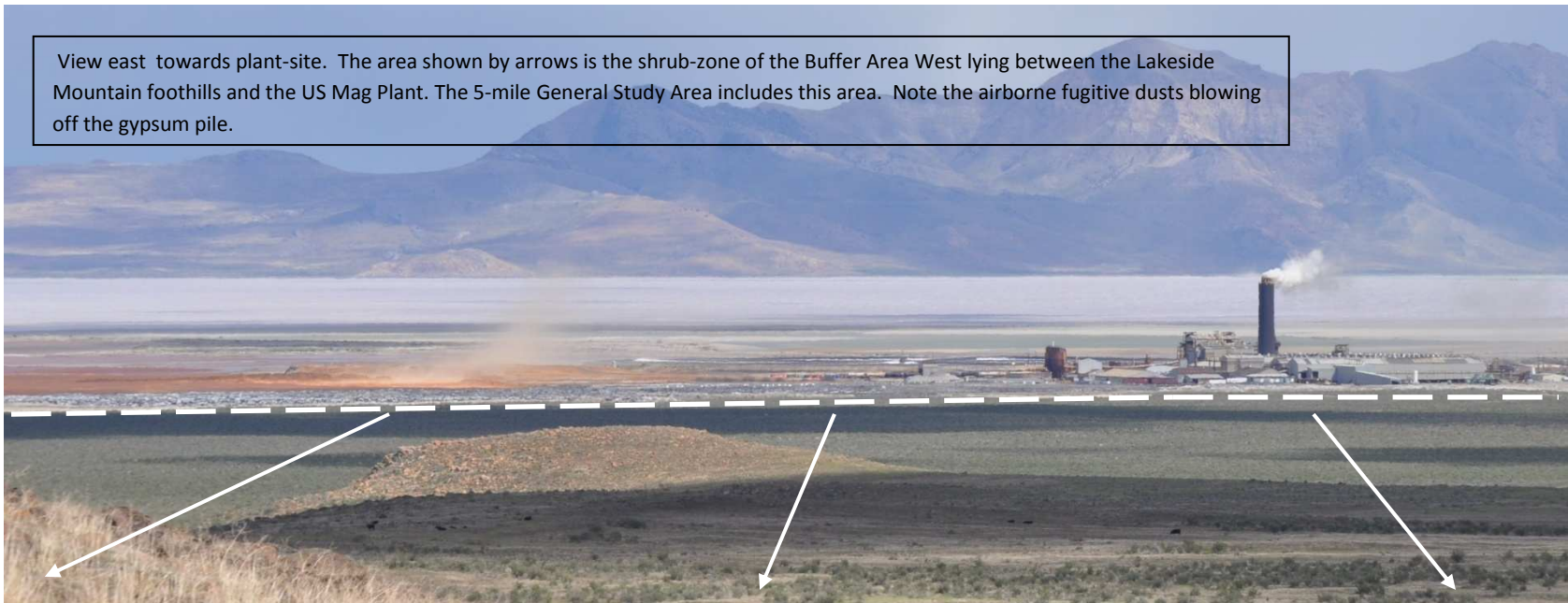


Aerial view over Buffer Area North and East showing GSL inlet.

View west over plant-site. The medium-green area is the shrub-zone of the Buffer Area West lying between the GSL/Plant-Site and the Lakeside Mountains visible in the distance. Due to potential impact by airborne contaminants, the General Study Area extends beyond the plant and waste-areas a distance of 5-miles. Much of the Buffer Area West and Lakeside Mountain Buffer area is federal land under BLM management and State-land.



View east towards plant-site. The area shown by arrows is the shrub-zone of the Buffer Area West lying between the Lakeside Mountain foothills and the US Mag Plant. The 5-mile General Study Area includes this area. Note the airborne fugitive dusts blowing off the gypsum pile.



Photographs of Buffer Area South PRI 14



View looking to west-southwest over the northern area of PRI-14 Buffer Area South



Wet areas along northern portion of PRI-14 due south of PRI-5



Seeps discharging into brine-fly laden wetlands in northern portion of PRI 14

Photographs of Buffer Area West PRI 15



Cattle grazing in Buffer Area West (April 2011).



Buffer Area West vegetation with US Mag plant in background.



View SE overlooking vegetation zones in the Buffer Area West.



Shrub vegetation in Buffer Area West .



Man-made spring in Buffer Area West.



Amphibians in man-made spring in Buffer Area West.



Animal burrow in Buffer Area West.

Photographs of Lakeside Mountain Buffer Area PRI 16



Pronghorn antelope moving from lowlands to Lakeside Mountain Buffer Area (April 2011).

Site-wide Air PRI 17

Note: No photographs in Log for PRI 17

Site-wide Water PRI 18

Note: No photographs in Log for PRI 18

US Magnesium Superfund Site
...air-borne contaminants/exposure investigation.

